

Title (en)

CHEMICAL RESISTANT MULTI-LAYER COATINGS APPLIED BY ATOMIC LAYER DEPOSITION

Title (de)

CHEMIKALIENBESTÄNDIGE, DURCH ATOMLAGENABSCHIEDUNG AUFGEBRACHTE MEHRSCHICHTLACKIERUNGEN

Title (fr)

REVÊTEMENTS MULTICOUCHES RÉSISTANTS AUX PRODUITS CHIMIQUES APPLIQUÉS PAR DÉPÔT DE COUCHE ATOMIQUE

Publication

**EP 3728692 A1 20201028 (EN)**

Application

**EP 18890385 A 20181218**

Priority

- US 201762599865 P 20171218
- US 2018066216 W 20181218

Abstract (en)

[origin: US2019185997A1] Described are multi-layer coatings, substrates (i.e., articles) coated with a multi-layer coating, and methods of preparing a multi-layer coating by atomic layer deposition, wherein the coating includes layers alumina and yttria.

IPC 8 full level

**C23C 16/455** (2006.01); **C23C 16/40** (2006.01); **C23C 16/44** (2006.01); **C23C 16/458** (2006.01); **H01L 21/02** (2006.01); **H01L 21/67** (2006.01)

CPC (source: EP KR US)

**C23C 16/403** (2013.01 - EP KR US); **C23C 16/405** (2013.01 - EP KR US); **C23C 16/4404** (2013.01 - EP KR US);  
**C23C 16/45529** (2013.01 - EP KR US); **C23C 16/45553** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**US 11390943 B2 20220719**; **US 2019185997 A1 20190620**; CN 111566255 A 20200821; EP 3728692 A1 20201028; EP 3728692 A4 20210915; JP 2021507112 A 20210222; JP 2022180352 A 20221206; JP 7382935 B2 20231117; KR 20200089765 A 20200727; KR 20230023820 A 20230217; TW 201930634 A 20190801; TW 202210652 A 20220316; TW 202233879 A 20220901; TW I748145 B 20211201; TW I773465 B 20220801; TW I777911 B 20220911; US 11713504 B2 20230801; US 2022316056 A1 20221006; WO 2019126155 A1 20190627

DOCDB simple family (application)

**US 201816223723 A 20181218**; CN 201880086065 A 20181218; EP 18890385 A 20181218; JP 2020533690 A 20181218; JP 2022129540 A 20220816; KR 20207020457 A 20181218; KR 20237003748 A 20181218; TW 107145745 A 20181218; TW 110128034 A 20181218; TW 111117323 A 20181218; US 2018066216 W 20181218; US 202217840367 A 20220614